



SCIENCE CENTER
explaining our world



2009-10

School Year Programs

Classroom Extension Program (CEP)

Field Trips to the Science Center

AND

Mobile Outreach Program (MOP)

The Science Center comes to you

Programs sponsored in part by:

Ametek • Bay News 9 • Progress Energy Florida • Community Foundation of Tampa Bay • The School Board of Pinellas County • The Pinellas County Board of County Commissioners • Pinellas Community Foundation • Southwest Florida Water Management District • State of Florida, Division of Cultural Affairs • City of St. Petersburg

The Science Center of Pinellas County, Inc.

7701 - 22nd Avenue N. | St. Petersburg, FL 33710

Phone: 727-384-0027 | Fax: 727-343-5729

www.sciencecenterofpinellas.org

CLASSROOM EXTENSION PROGRAM

The Classroom Extension Program (CEP) brings students in grades K-10 to the Science Center on class field trips to take part in hands-on workshops on a wide variety of science-related topics. CEP is designed specifically to supplement regular classroom education with interactive laboratory experiences that align with Sunshine State Standards. CEP has been a part of the Pinellas County educational experience for 42 years.

Science Center Mission: To inspire, motivate and stimulate innovative thinking in the area of science, technology, engineering, math and career development for K-12 students; enhancing their lives through instruction, hands-on, and experiential education delivered through partnerships with schools, corporations, universities, and the community.

REGISTERING FOR CEP



- Read the lab descriptions in the proper grade level. The corresponding 2009-10 Science Units of Study and Sunshine State Standards follow each lab description.
- Select either two 45 minute classes for grades K-2nd OR one 1-½ hour class for grades 3rd – 10th.
- Complete the reservation form and return it to the Science Center by US Mail, PONY #4 or fax to 727-343-5729. **The CEP reservation form is on page 15.**

Please understand that while we will try to give you your first choices, we can schedule only a limited number of labs on any given day. Your understanding is appreciated. If you have any questions or need assistance, please call our office at 727-384-0027.

CEP REGISTRATION DETAILS

1. Scheduling

- * Teachers may schedule more than one CEP field trip per class during the school year. Due to early release, no public school fieldtrips will be scheduled on Wednesdays. However, Wednesdays are available for private schools.

- * CEP field trips begin September 9, 2009 and end May 21, 2010.

WE CANNOT ACCEPT PHONE RESERVATIONS!

2. Lab Choices

*** Kindergarten – 2nd Grades**

Two classes, 45 minutes each, 60 students maximum

*** 3rd – 10th Grades**

One class, 1-1/2 hours, 30 students maximum

IF YOU ARE BRINGING 3 CLASSES, PLEASE HAVE STUDENTS DIVIDED INTO 2 GROUPS WHEN YOU ARRIVE.

3. Lab Hours

*** Morning Labs**

10:45 a.m. to 12:15 p.m.

11:00 a.m. to 12:30 p.m.

*** Afternoon Labs**

1:00 p.m. to 2:30 p.m.

4. Length of Field Trip

- * 1-1/2 hours of instruction

- * If you choose to have your students eat lunch at the Science Center, your lab presentation WILL BE SHORTENED.

Total instruction time: 60 minutes Lunch Time: 30 minutes

(Pinellas County Schools require all students to be on the bus to return to school no later than 12:30 p.m.)

5. Class Size

- * Pertains to all grades and all schools
- * **Maximum**
60 Students for two 45 minute labs
30 Students for one 90 minute lab
- * Pinellas County school buses require 30 students per bus but not more than 60 students and adults per bus.
- * **Minimum**
30 Students - 45 minute or 90 minute labs

EACH CLASS MUST BE ACCOMPANIED BY A TEACHER.

6. Fees

- * Public and Private Schools: \$3.50 per student - **NO FREE ADMISSIONS THIS YEAR.** *However, public school bus transportation is free.*
- * Must pay for a minimum of 30 students.
- * **PAYMENT IS DUE AT TIME OF VISIT: Cash, Mastercard, Visa, Discover or check payable to: The Science Center**

7. Transportation

- * **Public Schools**
Buses for public schools are available for morning sessions only and are FREE for any trips to the Science Center. The Science Center will arrange your school's transportation for your field trip.
- * Pinellas County school buses require 30 students per bus but not more than 60 students and adults per bus.

Approximate arrival time of buses at schools will be:

Up-County - 10:00 a.m.

Down & Mid-County - 10:15 a.m.

It is important that we make efficient use of district transportation. If you are an individual teacher and do not have a minimum of 30 students, arrangements should be made with another teacher from your school to share the bus. Sharing the bus does not mean that you have to take the same classes—choose grade appropriate classes for your students.

**PLEASE DO NOT SEND TRIP REQUESTS TO THE
TRANSPORTATION DEPARTMENT.**

- * **Private Schools**
Private schools must provide their own transportation. Classes are available all day to all schools but we encourage private schools to schedule afternoon classes or any time on Wednesdays (due to the shortened school schedule on Wednesdays, the public schools will not use our facility) since school buses are not available to public schools after lunch.

8. Gift Shop

- * Students can purchase reasonably priced science-related items at our gift shop. These fun and educational items will enhance their field trip experience and provide lasting memories. Information about our gift shop will be sent prior to your visit. All proceeds go to support the Science Center's educational programs. View gift shop merchandise on our website: www.sciencecenterofpinellas.org. Purchases from the gift shop may also be made on-line and shipped to your school.

CEP LABS

All K-2 classes are 45 minutes

Nature of Science benchmarks are also satisfied by our 45- minute learning experiences. Students will use the processes of science through investigative practices and scientific inquiry.



KINDERGARTEN

DON'T DUCK, LOOK UP (45 minutes)

Students will get their first look at the wonders of the night sky in this fun astronomy class. A planetarium show features Dudley Duck, who will take us on a journey to the stars.

SC.K.E.5.2-SC.K.E.5.3-SC.K.E.5.4-SC.K.E.5.5-SC.K.E.5.6

SEA LIFE (45 minutes)

Our 600-gallon touch tank will be home base for this class. Students will touch stingrays, spider crabs, coral and sponges and learn about the marine life that inhabits our oceans.

SC.K.N.1.2-SC.K.N.1.5-SC.K.L.14.3

New Class **ENERGY, FORCES, & CHANGES IN MOTION** (45 min.)

This class will include an introduction to Scientific Inquiry as children use Simple Machines to make observations, collect data, and keep pictorial records. Students will use inclined planes, pulleys, levers, and axles and wheels to explore the Law of Gravity through hands-on investigations.

SC.K.N.1.1-SC.K.N.1.3-SC.K.N.1.5-SC.K.P.12.1-SC.K.P.13.1-SC.K.E.5.1

FIRST GRADE

SUN, WATER AND CLOUDS, OH MY! (45 minutes)

Students will explore clouds in the sky, water on the earth, and our great bright sun in this exciting and educational weather class. Activities identifying the beneficial and harmful properties of the sun, as well as the importance of water and how to be safe around it will engage your first grade students. All weather classes will be held in our Bay News 9 weather room, where students will see the current weather conditions at the Science Center.

SC.1.E.5.4-SC.1.E.6.2

***New Class* SEE THE SEA (45 minutes)**

Have you ever gone to the beach and wondered what was living in the water where you were swimming? Students will use their five senses to explore some of the wondrous marine life that lives in our world. In this class, students will see, touch, smell, and hear some of the marine life from the Gulf of Mexico in our 600-gallon touch tank. No tasting, please!

SC.1.L.14.1—SC.1.L.14.3—SC.1.L.16.1—SC.1.L.17.1

***New Class* LEARNING LIFE SCIENCE (45 minutes)**

Students will use their senses to explore, observe and identify the world around them. Hands-on science fun will allow the students to understand the differences between living and non-living things and then explore the basic needs of plants and animals. Take a peek through our microscopes and catch an amazing view of roots, stems, and the cells of a leaf.

SC.1.L.14.1—SC.1.L.14.2—SC.1.L.14.3—SC.1.L.16.1—SC.1.L.17.1

PHYSICS ON THE MOVE (45 minutes)

This introduction to the physical sciences will provide students an opportunity to sharpen science process skills. Students will use force and motion to predict and record data and draw conclusions as science activities become science fun.

SC.1.P.12.1—SC.1.P.13.1—SC.1.E.5.2—SC.1.E.6.3

SECOND GRADE

OUR WONDERFUL BODIES (45 minutes)

This class is designed to give students an introduction to the human body and the functions of its parts. Students will hear the sound of their beating heart, meet Mr. Bones, and explore the importance of our stomach, muscles, and lungs. Activities in this class will enhance the understanding of the basic needs that the human body needs for survival.

SC.2.L.14.1—SC.2.L.17.1

A BUG’S LIFE (45 minutes)

Insects and arachnids may seem strange and creepy, but they are part of the largest group of living organisms on our planet—the arthropods. Students will have the opportunity to see and touch some of these amazing and diverse creatures while learning about their characteristics, life cycles, behaviors and habitats.

SC.2.L.16.1—SC.2.L.17.1—SC.2.L.17.2

***New Class* PLANTS AND TWIGS (45 minutes)**

This basic botany class takes a look at the remarkable life of plants and trees. Discuss what plants need to survive, how they grow and how plant material is used for food, building supplies and clothing. Students will enhance their learning through activities that involve soil classification, nutrient content, and water retention, and how these factors are the basis of the cycle of all living things. Each classroom will leave with its own newly planted seedlings to allow for further study in the classroom.

SC.2.L.16.1—SC.2.L.17.1—SC.2.E.6.1—SC.2.E.6.2—SC.2.E.6.3

***New Class* HOW MATTER MATTERS (45 minutes)**

Students will be introduced to the world of matter in this basic physical science class. We will observe and explore various objects and substances and understand how to categorize them by their physical properties, state of matter, volume, mass, weight, and shape.

SC.2.P.8.1—SC.2.P.8.2—SC.2.P.8.3—SC.2.P.8.4—SC.2.P.8.6—SC.2.P.9.1

OUR CHANGING WEATHER (45 minutes)

Students will explore wind, the sun, and the changing weather patterns of Earth’s seasons in our Bay News 9 weather room. What are the dangers of severe weather? Get an up close look at dangerous weather and how to be safe with fun hands-on activities and demonstrations. Before you go, be sure to check out the Science Center’s current weather conditions using our state-of-the-art weather station.

SC.2.E.7.1—SC.2.E.7.2—SC.2.E.7.4

THIRD GRADE

All 3-5 Grade Classes are 1 ½ hours

STAR POWER (1½ hours)

Supergiants and red dwarfs sound like characters in fantasy, but students will learn star lingo in this “out of this world” class. The life cycle of stars and many other important facts will be explored, in addition to a journey through space in our Digital Planetarium.

SC.3.E.5.1—SC.3.E.5.2—SC.3.E.5.3—SC.3.E.5.5

***New Class* FLORIDA’S DIVERSE ORGANISMS (1½ hours)**

This class explores the differences between the many wondrous animals in our world. Students will identify the many different characteristics of the critters in our Animal Kingdom based on their physical traits and behaviors. Get up close to our Florida snakes and owls, handle sea life in our marine touch tank, and tour our wetlands in hopes of spotting a furry (or not so furry) Florida friend.

SC.3.L.15.1—SC.3.L.17.1

DEFINING A DROP (1½ hours)

Explore the wonderful wet world of water. Say that three times fast! Students will measure, compare, and investigate the various properties and states of water through the use of thermometers, pipettes, beakers, flasks, and more. Enjoy a highly hands-on session about this everyday liquid we so much take for granted.

SC.3.P.9.1—SC.3.P.8.1—SC.3.P.8.2

***New Class* THE ENERGY OF LIGHT (1½ hours)**

Students will explore this important form of energy through a variety of hands-on activities, demonstrations, and experiments. Investigate how light travels, how light energy can often produce heat energy, and have fun with mirrors and prisms in this exciting physical science class. We’ll head outdoors before you go to explore the world with a set of binoculars.

SC.3.P.10.1—SC.3.P.10.3—SC.3.P.10.4

FOURTH GRADE

MAGNETIC ATTRACTION (1½ hours)

The basic principles of magnetism are explored in-depth, as students learn about magnetic fields, magnetic domains, and how the Earth itself is a (very) large magnet. With loads of hands-on activities, students will be 'attracted' to this class.

SC.4.P.8.1—SC.4.P.8.4

AN ATTRACTIVE LOOK AT ENERGY (1½ hours)

This is a hands-on class in which students will learn properties and uses of various forms of energy. Students will work with energy conversions, energy conservation, and instruments to demonstrate forms of energy such as light, sound, heat, and electrical. Renewable vs. non-renewable sources of energy will also be explored in this "energizing" class held in our new Progress Energy classroom.

SC.4.E.6.3—SC.4.E.6.6—SC.4.P.9.1—SC.4.P.10.1—SC.4.P.10.2—SC.4.P.10.3—SC.4.P.10.4

EXPLORATIONS IN PETROLOGY (1½ hours)

Students will explore the three categories of rocks and will work with a variety of mineral specimens including metal ores and semi-precious varieties. Additionally, we will use field identification techniques; examine fluorescent minerals under ultra-violet light; and investigate physical weathering and erosion.

SC.4.E.6.1—SC.4.E.6.2—SC.4.E.6.4—SC.4.E.6.6—SC.4.P.8.1

FUN WITH PHYSICS AND TOYS (1½ hours)

Believe it or not, toys always function within the laws of physics. Students will explore motion, movement, speed, force and center of gravity in this entertaining class where toys are the teaching tools.

SC.4.P.10.1—SC.4.P.10.2—SC.4.P.12.1—SC.4.P.12.2

MARINE SCIENCE (1½ hours)

Stocked with many different varieties of marine animals, our 600-gallon saltwater touch tank offers a unique hands-on learning experience. Students will study sponges, corals, echinoderms, mollusks, crustaceans and stingrays. In addition, the use of a Coastal Enviroscope will help to illustrate the point and non-point pollution effects of our irreplaceable marine environments.

SC.4.L.17.3—SC.4.L.17.4—SC.4.L.16.2—SC.4.L.16.3—SC.4.L.16.4

WETLAND ECOSYSTEMS (1½ hours)

The importance of wetlands is the focus of this class. Discover the connection between man and this fragile ecosystem and why these areas are important to the overall health of the bodies of water they border. Weather permitting, classes may tour our on-site wetland exhibit.

SC.4.L.16.2—SC.4.L.17.4

THE NIGHT SKY (1½ hours)

The sky above is always changing, but most nights you can look up and find stars, planets, and our moon. With our digital planetarium, we will explore the current night sky and find out what to look for during the season of your visit. This class is "out of this world"!

SC.4.E.5.1—SC.4.E.5.2—SC.4.E.5.3—SC.4.E.5.4—SC.4.E.5.5

FIFTH GRADE

NEWTON IN SPACE (1½ hours)

Believe it or not, many things can be explained by physics. Learn how Newton's laws of force and motion apply to common objects as well as satellites orbiting the Earth. Rotational inertia, center of gravity, potential and kinetic energy are just a few of the concepts covered in this "moving" class.

SC.5.P.13.1—SC.5.P.13.2—SC.5.P.13.3—SC.5.P.13.4

WHAT'S IN A GALAXY (1½ hours)

The Milky Way is 100,000 light years in diameter and home to billions of stars. Study the planets and all other objects within our solar system, as well as the constellations that can be seen in the sky at the time of your visit. A visit to our planetarium will show students how constellations are mapped out and how to identify them on any given night.

SC.5.E.5.1—SC.5.E.5.2—SC.5.E.5.3

ENERGY - TO HAVE AND TO HOLD (1½ hours)

This is a hands-on class in which students will trace the electrical system from the power company (provider) to the home (user). Students will work with various instruments to calculate electrical energy usage and consider methods of conserving energy. Students will be 'charged up' when they put together a simple circuit and test various conductor and nonconductor materials.

SC.5.P.11.1—SC.5.P.11.2—SC.5.P.10.1—SC.5.P.10.2—SC.5.P.10.4

KIDS AND CHEMISTRY (1½ hours)

Students will explore the basic properties of solids, liquids, and gases in this beginner chemistry class. Test various materials and determine whether or not they dissolve; have fun with mixtures and solutions; and perform various other experiments in our chemistry lab. Your future chemists will be sure to enjoy this hands-on learning experience.

SC.5.P.8.1—SC.5.P.8.2—SC.5.P.8.3—SC.5.P.9.1

MARINE SCIENCE (1½ hours)

Our 600-gallon touch tank provides a fantastic hands-on learning experience about the many species that inhabit the Gulf of Mexico. Stingrays, spider crabs and starfish are some of the creatures students will be able to touch. In addition, the use of a Coastal Enviroscope will help to illustrate the point and non-point pollution effects of our irreplaceable marine environments.

SC.5.L.14.2—SC.5.L.15.1—SC.5.L.17.1

WEATHER PREDICTION (1½ hours)

Predicting weather is the focus of this class. Types of fronts and how they cause changing temperatures and conditions will be discussed. Students will see how heat rises. All weather classes will be held in our Bay News 9 weather room, where students will see the radar net screen, weather gauges on the big screen TV, and the current weather conditions at the Science Center.

SC.5.E.7.1—SC.5.E.7.2—SC.5.E.7.3—SC.5.E.7.4—SC.5.E.7.5—SC.5.E.7.6—SC.5.E.7.7

Classes for Middle Grades 6-8 (These classes can be adjusted by grade level and are available to all Middle Grades; however, classes are organized by grade level to align with classroom units of study).

Nature of Science benchmarks are also satisfied by our 90- minute learning experiences. Students will use the processes of science through investigative practices and scientific inquiry.

SIXTH GRADE (EARTH SCIENCES)

Meteorology:

***New Class* ADVANCED WEATHER (1½ hours)**

Students will further understand Earth's systems and patterns during this comprehensive exploration of weather. Our Bay News 9 Weather Room provides an excellent opportunity for studying weather, climate, heat transfer, Earth's spheres, and how natural disasters affect life here in Florida.

SC.6.E.7.1—SC.6.E.7.2—SC.6.E.7.3—SC.6.E.7.4—SC.6.E.7.5—SC.6.E.7.6—SC.6.E.7.7

Geology:

***New Class* ADVANCED PETROLOGY (1½ hours)**

This Earth Science class studies the structures and patterns of our constant changing planet. Erosion, plate tectonics, and man-made earth changes such as deforestation, urbanization, and desertification are explored through activities, experiments, and the use of technology.

SC.6.E.6.1—SC.6.E.6.2SC.7.E.6.1—SC.7.E.6.2—SC.7.E.6.4—SC.7.E.6.5—SC.7.E.6.6—SC.7.E.6.7

Astronomy:

***New Class* EARTH IN SPACE AND TIME (1½ hours)**

The ever-changing night sky allows students to see moons, stars, planets and other celestial objects. During this earth science class a visit to the Science Center's digital planetarium offers a grade level-appropriate view into the ever-expanding universe. Activities using technological materials round out this critical learning experience.

SC.8.E.5.1—SC.8.E.5.2—SC.8.E.5.3—SC.8.E.5.4—SC.8.E.5.5—SC.8.E.5.6—SC.8.E.5.7—SC.8.E.5.8—SC.8.E.5.9—SC.8.E.5.10—SC.8.E.5.11—SC.8.E.5.12

SEVENTH GRADE (LIFE SCIENCES)

***New Class* DEVELOPMENT OF LIVING ORGANISMS (1½ hours)**

This biological science class offers a comprehensive look into the human body and homeostasis, the body's ability to regulate its inner environment. Students will use microscopes to enhance their knowledge of the scientific theory of cells and investigate the general functions of the body's major systems through models and computer-aided learning. We'll add the "eek" factor by exploring some of the infectious agents that can affect the human body.

SC.6.L.14.1—SC.6.L.14.2—SC.6.L.14.3—SC.6.L.14.5—SC.6.L.14.6

COASTAL ECOSYSTEMS (1½ hours)

The coastal zone and the open sea cover 75% of our planet. Study how marine species are impacted by human intervention; differentiate between point and non-point pollution; and see the flow of rainwater across the watershed to the sea through the use of a Coastal Enviroscope. Visit with our resident saltwater friends and see the importance of taking care of our irreplaceable marine environments.

SC.7.E.6.6—SC.7.L.15.2—SC.7.L.15.3—SC.7.L.17.3

MARINE SCIENCE (1½ hours)

Our 600-gallon saltwater touch tank provides a fantastic hands-on learning experience. Students will handle our resident stingrays, horseshoe and spider crabs and discuss the importance of coral reefs and tidal pools to our valuable marine ecosystem.

SC.6.L.15.1—SC.7.L.15.2—SC.7.L.15.3—SC.7.L.17.2—SC.7.L.17.3

MICRO-WORLD (1½ hours)

Using powerful microscopes, students will make wet mounts to observe living organisms collected from samples of pond water. This highly hands-on program includes taxonomy and examination of various phyla examples that include algae, protozoan and other invertebrate microorganisms.

SC.6.L.14.2—SC.6.L.14.3—SC.6.L.14.4—SC.6.L.15.1

WETLAND ECOSYSTEMS (1½ hours)

Wetlands are home to 5,000 plant species, a third of all native bird species, and countless reptiles and amphibians—so why do developers and city planners want to fill these areas to build industrial parks? Meet a few of our Florida animals and discover the importance of these ecosystems. Students will tour our on-site wetland exhibit (weather permitting), then collect and analyze water samples. This experience will put the students' critical thinking skills to the test.

SC.7.E.6.6—SC.7.L.15.3—SC.7.L.17.1—SC.7.L.17.2—SC.7.L.17.3

EIGHTH GRADE (PHYSICAL SCIENCES)

***New Class* NEWTON'S PARK (1½ hours)**

Engineering and Physics partner in this exciting class that would make Sir Isaac Newton proud. Students will use teamwork, mathematics, simple machines, and critical thinking skills to explore Newton's Laws of Inertia.

SC.6.P.11.1—SC.6.P.12.1—SC.6.P.13.1—SC.6.P.13.2—SC.6.P.13.3

***New Class* FORENSICS (1½ hours)**

Located in our new Forensics Lab, students will enter the room, don lab coats and goggles, and discover the exciting world of Forensics Science. Chemistry, toxicology, chromatography, technology and DNA identification are tools used by crime scene investigators as well as our budding scientists. Students will work in stations and work together to solve a "crime".

SC.8.N.1.6—SC.8.P.8.8—SC.8.P.8.9

***New Class* THERMODYNAMICS (1½ hours)**

The Law of Conservation of Energy will be a "hot" topic in this class about heat energy. Heat transfer, metal expansion and the calculation of specific heat for different metals are all explored through direct student participation. What materials are good conductors of heat? Find out at the Science Center's physical science lab.

SC.8.P.8.4—SC.7.P.11.1—SC.7.P.11.2—SC.7.P.11.3—SC.7.P.11.4



NINTH GRADE (BIOLOGICAL SCIENCES)

***New Class* MAMMALIAN BRAIN DISSECTION (1½ hours)**

Mammals have large, complex brains and are the only animals with a neocortex, the structure responsible for higher information processing. Students, working in pairs, will understand the basic physiology of the brain when they dissect a sheep's brain. The examination of the cranial nerves and white and gray matter will provide a wealth of knowledge and insight into how the brain functions.

** Please call for pricing.*

**SC.912.L.14.21—SC.912.L.14.25—SC.912.L.14.26—SC.912.L.14.27—SC.912.L.14.28—
SC.912.L.14.29—SC.912.L.14.32**

***New Class* SHARK DISSECTION AND MARINE BIOLOGY (1½ hours)**

Sharks have lived on the earth for 350 million years. This class offers a look inside one of the planet's oldest animals. Working in pairs, students will be able to understand the reproductive organs, the large oil filled liver, and the cartilaginous skeleton. Included in the class will be a discussion on marine life and the opportunity to touch the animals in our 600-gallon touch tank.

**Please call for pricing.*

SC.912.L.17.2—SC.912.L.17.6—SC.912.L.17.8—SC.912.L.14.11—SC.912.L.14.12

DNA & GENETICS (1½ hours)

Discuss the hereditary material common in humans and other organisms. Examine how DNA replicates, or makes copies of itself and why genetic disorders occur in certain ethnic groups. Students will analyze patterns of inheritance using Mendel's Laws of Segregation and Independent Assortment.

Available January, 2010

**SC.912.L.16.1—SC.912.L.16.2—SC.912.L.16.3—SC.912.L.16.4—SC.912.L.16.9—
SC.912.L.16.10**

TENTH GRADE

***New Class* CHEMISTRY (1½ hours)**

Your students will put their knowledge to the test in this unique and engaging learning opportunity held in our Chemistry Lab. With guided supervision, students will use their brains to test unknown substances using biochemical, organic, and inorganic testing.

This class is available 2nd semester only; students must have already completed Lab Equipment Safety and Procedures in their classroom and have a working knowledge of various chemicals and testing procedures

● SCIENCE CENTER OF PINELLAS
CEP RESERVATION FORM 2009-2010

Please complete the information below and return it to our office VIA Pony #4 or US Mail to the attention of Essie Hills or Fax to (727)343-5729. Your confirmation will be mailed to you. NO PHONE RESERVATIONS WILL BE TAKEN. If you need assistance, please call the Science Center at (727)384-0027.

Office Use Only
Date Rcvd: _____ Numerical Order: _____
Free: _____ Pay: _____

Person Requesting Reservation	
E-mail of Person Requesting Reservation	
School Name	
School Phone Number	
School Address	Zip Code
City	
Pony #	

Teacher #1		
Grade		# of Students
Teacher #1 E-mail Address		
Teacher #2		
Grade		# of Students
Teacher #2 E-mail Address		
Teacher #3		
Grade		# of Students
Teacher #3 E-mail Address		

● CHOOSE DATE

1st CHOICE: _____

2nd CHOICE: _____

Note: If your first or second date choices are not available a date as close as possible to your request will be selected. Are there any days of the week you do not want scheduled? (e.g.: An early release day, etc.): _____

Please List: _____

● TIME

Public Schools: A time will be assigned to your school according to the guidelines listed in our brochure. **Do NOT choose any of the times below.**

Private Schools: Science Center Arrival Time (Please Circle a Time)

10:00am	10:30am	1:00pm
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● CHOOSE LAB(S)

Grade: _____

1st Choice: _____

2nd Choice: _____

3rd Choice: _____

4th Choice: _____

5th Choice: _____

● Please indicate number of handicapped students:

____ Wheelchair ____ Visually ____ Hearing ____ Emotionally ____ Mentally ____ Physically

List any special programs these students are involved in (VE, etc.): _____

CEP CONFIRMATION FORM
2009 - 2010
(FOR OFFICE USE ONLY)

The following trip is scheduled:

School _____ Total # of persons on Bus _____

Teacher #1 _____ Grade _____ # of Students _____

Teacher #2 _____ Grade _____ # of Students _____

Teacher #3 _____ Grade _____ # of Students _____

Lab _____

Lab _____

Day / Date _____

Total Time at Science Center

Public School Scheduled Time	Private School Scheduled Time
() 10:45 am to 12:15 pm	() 10:00 am to 11:30 am
() 11:00 am to 12:30 pm	() 10:30 am to 12:00 pm
Date Confirmed _____	() 1:00 pm to 2:30 pm
By Essie Hills, Office Manager	

Reminder:

- Admissions Fee All Schools - \$3.50 per student
- Transportation – Public Schools Buses – FREE – AM Only
- If you bring three classes, they must be divided into 2 equal groups upon arrival at The Science Center.
- Public Schools – No Field Trips on Wednesdays

Please turn over for information about our summer programs.



- DO NOT DETACH THIS PAGE -

SUMMER PROGRAMS AT THE SCIENCE CENTER

Our week-long classes are fun and educational, offering hands-on learning experiences for grades K-12.

Do you have students who would benefit from a fun, hands-on science program this summer? From crime scene investigations to computer game design, we offer dozens of exciting programs for students grades K-12.

Contact the Science Center in March for copies of our summer brochure for your students.



MOBILE OUTREACH PROGRAM

The Mobile Outreach Program (MOP) delivers hands-on science and cultural curriculum to elementary and middle school students at their schools, in their own classrooms. MOP is designed specifically to supplement regular classroom education with interactive programming that aligns with Sunshine State Standards. MOP has been a part of the Pinellas County educational experience for 27 years.

REGISTERING FOR MOP

- Select a presentation in the proper grade level. The corresponding 2009-10 Science Units of Study and Sunshine State Standards follow each description.
- Complete the reservation application and return it to the Science Center by US Mail, Pony #4, or fax to 727-343-5729. **The reservation form for MOP is on page 19.**

We can schedule only a limited number of presentations on any given day. Your understanding is appreciated. If you have any questions or need assistance, please call our office at 727-384-0027.

MOP REGISTRATION DETAILS

1. Scheduling

- * Teachers may schedule more than one MOP visit per class during the school year.
- * Scheduling is on a first-come, first-serve basis.
- * MOP visits begin September 9, 2009 and end May 21, 2010.

WE CANNOT ACCEPT PHONE RESERVATIONS!

2. Presentation Times

- * Start at 9:30 a.m. Please fill out the time information on the reservation form as completely as possible. This will help the scheduler make the best arrangements for your school.

3. Presentation Length and Class Size

- * Grades 1-5 – One presentation, 60 minutes. Maximum of 30 students.

4. Fees

Grades 1-5 – \$200/visit (one 60-minute presentation). \$50 for an additional 30 minutes.
NO FREE MOP'S THIS SCHOOL YEAR!

- * **PAYMENT IS DUE AT TIME OF VISIT: Cash, Mastercard, Visa, Discover or check payable to: The Science Center.**

2009-2010 SCHOOL YEAR

MOP PRESENTATIONS

FIRST GRADE

PHYSICS ON THE MOVE

This introduction to the physical sciences will include use of the scientific method and an opportunity to sharpen science process skills. Students will use force and motion to make predictions, record data, and draw conclusions, as science activities become science fun.

SC.1.P.12.1—SC.1.P.13.1—SC.1.E.5.2—SC.1.E.6.3

SECOND GRADE

A BUG'S LIFE

Insects and arachnids may seem strange and creepy, but they are part of the largest group of living organisms on our planet—the arthropods. Students will have the opportunity to see and touch some of these amazing and diverse creatures while learning about their characteristics, behavior and habitats.

SC.2.L.16.1—SC.2.L.17.1—SC.2.L.17.2

THIRD GRADE

New Class THE ENERGY OF LIGHT

Students will explore this important form of energy through a variety of hands-on activities, demonstrations, and experiments. Investigate how light travels, how light energy can often produce heat energy, and have fun with mirrors and prisms in this exciting physical science class.

SC.3.P.10.1—SC.3.P.10.3—SC.3.P.10.4

FOURTH GRADE

FUN WITH PHYSICS AND TOYS

Believe it or not, toys always function within the laws of physics. Students will explore motion, movement, speed, force and center of gravity in this entertaining class where toys are the teaching tools.

SC.4.P.10.1—SC.4.P.10.2—SC.4.P.12.1—SC.4.P.12.2

FIFTH GRADE

KIDS AND CHEMISTRY

Physical and chemical changes happen all the time. Find out how they work and what sets them off. Students will do some real chemistry experiments and learn which substances are acids and which are bases.

SC.5.P.8.1—SC.5.P.8.2—SC.5.P.8.3—SC.5.P.8.4—SC.5.P.9.1

● SCIENCE CENTER OF PINELLAS MOP RESERVATION FORM 2009 – 2010

Please complete the information below and return it to our office VIA Pony #4 or US Mail.
Your confirmation will be returned to you. **NO PHONE RESERVATIONS WILL BE TAKEN.**
If you need assistance, please call the Science Center at (727)384-0027.

Office Use Only	
Date Rcvd: _____	
Numerical Order: _____	
Free: _____ Pay: _____	

Person Requesting Reservation	
School Name	
School Phone Number	
School Address	
City	Zip Code
Pony #	

Teacher #1	
Grade	# of Students
Teacher #1 E-Mail Address	
Teacher #2	
Grade	# of Students
Teacher #2 E-Mail Address	

● CHOOSE DATE

1st Choice: _____

2nd Choice: _____

3rd Choice: _____

● TIME INFORMATION

**It is essential to fill out this section as accurately as possible
to help schedule your presentation.**

School **Starts** at: _____ and **Ends** at: _____

Students **Start** to go to **Lunch** at: _____

Lunch **Ends** at: _____

Students go to PE/ART/etc. at: _____

Type of classroom: K-Pod 1st Floor

Portable 2nd Floor

● HANDICAPPED STUDENTS IN THIS GROUP

____ Wheelchair ____ Visually ____ Hearing

____ Emotionally ____ Mentally ____ Physically

● CHOOSE PRESENTATION

Please circle your desired presentation.

1st Grade

Physics On The Move

2nd Grade

A Bug's Life

3rd Grade

The Energy of Light

4th Grade

Fun With Physics
and Toys

5th Grade

Kids And Chemistry



SCIENCE CENTER of Pinellas County
7701 - 22nd Avenue N. | St. Petersburg, FL 33710
Phone: 727-384-0027 Fax: 727-343-5729
www.sciencecenterofpinellas.org

ADDRESS SERVICE REQUESTED

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THE PATH TO A BETTER EDUCATION